MEMORANDUM

TO: Mr. Addison Rice

Anderson, Mulholland and Associates

FROM: R. Infante

FILE: 1605308F

DATE: June 29, 2016

RE:

Data Validation Air samples SDG: 1605308F

SUMMARY

Full validation was performed on the data for several air samples analyzed for methane by ASTM method D-1946-modified. The samples were collected at the Bristol Myer Squib facility, Humacao, PR site on May 14, 2016 and submitted to Eurofins Air Toxics, Inc. of Folson, California that analyzed and reported the results under delivery groups (SDG) 1605308F.

The sample results were assessed according to USEPA data validation guidance documents in the following order of precedence: Volatile Organic Analysis of Ambient Air in Canisters by Method TO-15, (SOP # HW-31. Revision #4. October, 2006; and the QC criteria of the ASTM method D-1946-modified. The QC criteria and data validation actions listed on the data review worksheets are from the primary guidance document, unless otherwise noted.

In general the data is valid as reported and may be used for decision making purposes. The data results are acceptable for use.

SAMPLES

The samples included in the review are listed below

Client Sample ID	Lab. Sample ID	Collected Date	Matrix	Analysis
B71A-1	1605308F-02A	05/14/2016	Air	Methane
B71A-2	1605308F-03A	05/14/2016	Air	Methane
B71A-6	1605308F-07A	05/14/2016	Air	Methane

REVIEW ELEMENTS

Sample data were reviewed for the following parameters, where applicable to the method

- Agreement of analysis conducted with chain of custody (COC) form
- o Holding time and sample preservation
- Gas chromatography/mass spectrometry (GC/MS) tunes
- o Initial and continuing calibrations
- o Method blanks/trip blanks/field blank
- o Canister cleaning certification criteria
- o Surrogate spike recovery

- o Internal standard performance and retention times
- o Field duplicate results
- o Laboratory control sample/laboratory control sample duplicate (LCS/LCSD) results
- o Quantitation limits and sample results

DISCUSSION

Agreement of Analysis Conducted with COC Request

Sample reports corresponded to the analytical request designated on the chain-of-custody except for the following:

• The Chain of Custody (COC) information for sample B7IA-1 did not match the information on the canister with regard to canister identification. The client was notified of the discrepancy and the information on the canister was used to process and report the sample(s).

Holding Times and Sample Preservation

All samples analyzed within the recommended method holding time. All summa canisters received in good conditions.

Samples analyzed within method recommended holding time.

Initial and Continuing Calibrations

Methane by ASTM method D-1946 (modified)

Initial and continuing calibrations meet method specific requirements. Initial calibration retention times meet method specific requirements.

Method Blank/Trip Blank/Field Blank

Target analytes were not detected in laboratory method blanks.

No trip/field blank analyzed with this data package.

Laboratory/Field Duplicate Results

Laboratory duplicates were analyzed as part of this data set. Target analytes meet the RPD performance criteria of +25% for analytes $5\times SQL$.

LCS/LCSD Results

<u>Methane</u>

LCS/LCSD (blank spike) were analyzed by the laboratory associated with this data package. Recoveries and RPD within laboratory control limits.

Quantitation Limits and Sample Results

Dilutions were not performed (see worksheet).

Rafael In

Méndez LIC # 188

Calculations were spot checked.

Certification

The following samples 1605308F-01A; 1605308F-03; and 1605308F-07A were analyzed following standard procedures accepted by regulatory agencies. The quality control requirements met the methods criteria except in the occasions described in this document.

Rafael Infante

Chemist License 1888



Air Toxics

Client Sample ID: B7IA-1 Lab ID#: 1605308F-01A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name: Dil. Factor:	10051909 1.64	Date of Collection: 5/14/16 8:1 Date of Analysis: 5/19/16 12:23	
		Rpt. Limit	Amount
Compound		(%)	(%)
Methane	-	0.00016	0.00018

Container Type: 6 Liter Summa Canister (100% Certified)





Client Sample ID: B7IA-2 Lab ID#: 1605308F-03A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	10051908	Date of Colle	ction: 5/14/16 8:25:00 PM	
Dil. Factor:	2.07	Date of Analy	ysis: 5/19/16 11:56 AM	
	- -	Rpt. Limit	Amount	
Compound		(%)	(%)	
Methane		0.00021	0.00021	

Container Type: 6 Liter Summa Canister (100% Certified)





Air Toxics

Client Sample ID: B7IA-6 Lab ID#: 1605308F-07A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name: Dil. Factor:	10051907 2.68	Date of Collection: 5/14/16 8:53 Date of Analysis: 5/19/16 11:28	
		Rpt. Limit	Amount
Compound		(%)	(%)
Methane		0.00027	0,00027

Container Type: 6 Liter Summa Canister (100% Certified)



eurofins	Air Toy
	I WIT INY.

Fedex tracking No 7830 81486749

Sample Transportation Notice

Relinquishing signature on this document indicates that sample is being shipped in compliance with 180 BLUE RAVINE ROAD, SUITE B ell applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnity Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples, D.O.T. Hotiling (800), 487-4922

FOLSOM, CA 95630-4719 (916) 985-1000 FAX (916) 985-1020

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	Lab i.D.	Field Sample I.D. (Location)	Can #			of Collection	Analyses Reques				
	ola	B7 IA-1	0.5.5					Ciettan	24454	Receipt	Final (pel)
leic	020	A	06300		14/16		10-15	+30	7.5		
57/3/10	030	A	00355	05/4	4/16	2012	TO-15	+30	7.0		
		B7 IA-2	N0593	05/	4/16	2025	To-15	130	13.0		
Kic	0400	67 IA-3	00314	05/	4/16	2034	TO-15	+ 30	10.0		
5113/10	05/2	87 IA-4	5737	05/	14/16	2057	TO-15	÷30	6.5		
	060	B7 IA-5	6L1224	05/	4/16	2.004	10-15	#30	6.5	i	
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	Project Number:1605308F	
	Date:05/14/2016	
REVIEW OF VOLATILE ORG. The following guidelines for evaluating volatile organics vactions. This document will assist the reviewer in using production and in better serving the needs of the data users. The USEPA data validation guidance documents in the following D-1946 method for measuring permanent gases and light samples using gas chromatography (GC) and a thermal condition (FID). Validating Air Samples. Volatile Organic Art TO-15, (SOP # HW-31. Revision #4. October, 2006). The Quidance do the data review worksheets are from the primary guidance do the hardcopied (laboratory name) _Eurofinsreviewed and the quality control and performance data summary products.	were created to delineate required value of the sample results were assessed accord order of precedence: QC criteria from thydrocarbons in refinery and other substitution of Ambient Air in Canisters by MC criteria and data validation actions lists occurrent, unless otherwise noted.	formed rding to ASTM sources nization Method sted on
Lab. Project/SDG No.:1605308F No. of Samples:3	Sample matrix:Air	
Trip blank No.: Field blank No.: Equipment blank No.: Field duplicate No.:		
X Data CompletenessX Holding TimesN/A_ GC/MS TuningN/A_ Internal Standard PerformanceX BlanksN/A_ Surrogate RecoveriesN/A_ Matrix Spike/Matrix Spike Duplicate	X Laboratory Control SpikesX Field DuplicatesX CalibrationsX Compound IdentificationsX Compound QuantitationX Quantitation Limits	
Overall Comments:_Methane_by_ASTM_method_D-194	16_(modified)	_
Definition of Qualifiers: J- Estimated results U- Compound not detected R- Rejected data UJ- Estimated nondetect		
Reviewer:		

DATA REVIEW WORKSHEETS

DATA COMPLETENESS

MISSING INFORMATION	DATE LAB. CONTACTED	DATE RECEIVED
-\-		
1		
1		
	1	
		\
		1
		1
		437

All criteria were met_	Χ_	_
Criteria were not met		
and/or see below	-	

HOLDING TIMES

The objective of this parameter is to ascertain the validity of the results based on the holding time of the sample from time of collection to the time of analysis.

Complete table for all samples and note the analysis and/or preservation not within criteria

SAMPLE ID	DATE SAMPLED	DATE ANALYZED	рН	ACTION
in good condition	ns. The Chain of Custo	ody (COC) information for	or sample	summa canisters received e B7IA-1 did not match the client was notified of the
discrepancy and	the information on the	canister was used to pro	ocess an	d report the sample.
· · · · · · · · · · · · · · · · · · ·			<u> </u>	

<u>Criteria</u>

Aqueous samples – 14 days from sample collection for preserved samples (pH \leq 2, 4°C), no air bubbles.

Aqueous samples – 7 days from sample collection for unpreserved samples, 4°C, no air bubbles. Soil samples- 7 days from sample collection.

Cooler temperature (Criteria: 4 ± 2 °C): N/A – summa canisters

<u>Actions</u>

If the VOCs vial(s) have air bubbles, estimate positive results (J) and reject nondetects (R).

If the % solids of soil samples is 10-50%, estimates positive results (J) and nondetects (UJ)

If the % solid of soil samples is < 10%, estimate positive results (J) and reject nondetects (R).

If holding times are exceeded but < 14 days beyond criteria, estimate positive results (J) and nondetects (UJ).

If holding times are exceeded but < 28 days beyond criteria, estimate positive results (J) and reject nondetects (R).

If holding times are grossly exceeded (> 28 days beyond criteria), reject all results (R).

If samples were not iced or if the ice were melted (> 10°C), estimate positive results (J) and nondetects (UJ).

All criteria were metN/A
Criteria were not met see below

GC/MS TUNING

Comic Formito						
The assessment of the tuning results is to determine if the sample instrumentation is within the standard tuning QC limits						
N/A_ The BFB performa	nce results were reviewed an	d found to be within th	ne specified criteria.			
N/A_ BFB tuning was pe	rformed for every 24 hours o	sample analysis.				
f no, use professional judgment to determine whether the associated data should be accepted, qualified or rejected.						
List	the	samples	affected:			

If mass calibration is in error, all associated data are rejected.

Note: Samples analyzed using GC with either TCD or FID detection.

All criteria were met _	Х
Criteria were not met	
and/or see below	

CALIBRATION VERIFICATION

Compliance requirements for satisfactory instrument calibration are established to ensure that the instrument is capable of producing and maintaining acceptable quantitative data.

Date of initial calibration:_	01/15/16
Dates of continuing calibr	ation:_05/19/16
Instrument ID numbers:	GC-10
Matrix/Level:	Air/low_

DATE	LAB ID#	FILE	CRITERIA OUT RFs, %RSD, %D, r	COMPOUND	SAMPLES AFFECTED
			rations meet method sprequirements.	pecific requirements. I	nitial calibration retention

Criteria

All RFs must be > 0.05 regardless of method requirements for SPCC.

All %RSD must be < 15 % regardless of method requirements for CCC.

All %Ds must be \leq 30% regardless of method requirements for CCC.

Method TO-15 does not specify criterion for the curve correlation coefficient (r). A limit for r of \geq 0.995 has therefore been utilized as professional judgment.

Actions

If any compound has an initial RF or a continuing RF of < 0.05, estimate positive results (J) and reject nondetects (R), regardless of method requirements.

If any compound has a %RSD > 15%, estimate positive results (J) and use professional judgment to qualify nondetects.

If any compound has a %RSD > 90%, estimate positive results (J) and reject nondetects (R).

If any compound has a % D > 30%, estimate positive results (J) and reject nondetects (R).

If any compound has a % D > 30%, estimate positive results (J) and nondetects (UJ).

If any compound has a % D > 90%, estimate positive results (J) and reject nondetects (R).

If any compound has r < 0.995, estimate positive results and nondetects.

A separate worksheet should be filled for each initial curve

All criteria were met _	_X_	_
Criteria were not met		
and/or see below		

V A. BLANK ANALYSIS RESULTS (Sections 1 & 2)

The assessment of the blank analysis results is to determine the existence and magnitude of contamination problems. The criteria for evaluation of blanks apply only to blanks associated with the samples, including trip, equipment, and laboratory blanks. If problems with any blanks exist, all data associated with the case must be carefully evaluated to determine whether or not there is an inherent variability in the data for the case, or if the problem is an isolated occurrence not affecting other data.

List the contamination in the blanks below. High and low levels blanks must be treated separately.

Laboratory blanks

DATE ANALYZED	LAB ID	LEVEL/ MATRIX	COMPOUND	CONCENTRATION UNITS
All_metho				
Field <u>/</u> Equipmen				
DATE ANALYZED	LABID	LEVEL/ MATRIX	COMPOUND	CONCENTRATION UNITS
_No_field/trip/e	quipment_blank	s_analyzed_wi	th_this_data_package	
		-		

All criteria were met _	х_
Criteria were not mel	
and/or see below	_

VB. BLANK ANALYSIS RESULTS (Section 3)

Blank Actions

Action Levels (ALs) should be based upon the highest concentration of contaminant determined in any blank. Do not qualify any blank with another blank. The ALs for samples which have been diluted should be corrected for the sample dilution factor and/or % moisture, where applicable. No positive sample results should be reported unless the concentration of the compound in the samples exceeds the ALs:

ALs = 10x the amount of common contaminants (methylene chloride, acetone, 2-butanone, and toluene)

ALs = 5x for any other compounds

Specific actions are as follows:

If the concentration is < sample quantitation limit (SQL) and \le AL, report the compound as not detected (U) at the SQL.

If the concentration is \geq SQL but \leq AL, report the compound as not detected (U) at the reported concentration.

If the concentration is \geq SQL and > AL, report the concentration unqualified.

Notes:

High and low level blanks must be treated separately

Compounds qualified "U" for blank contamination are still considered "hits" when qualifying for calibration criteria.

CONTAMINATION SOURCE/LEVEL	COMPOUND	CONC/UNITS	AL/UNITS	SQL	AFFECTED SAMPLES
					Vitage
					and the same of th
					i -
			- The second		
		1			
_ -		-			
	- in the second				
- Allen					
			-		-

All criteria were met __N/A__ Criteria were not mel and/or see below ___

ACTION

SURROGATE SPIKE RECOVERIES

Laboratory performance of individual samples is established by evaluation of surrogate spike recoveries. All samples are spiked with surrogate compounds prior to sample analysis. The accuracy of the analysis is measured by the surrogate percent recovery. Since the effects of the sample matrix are frequently outside the control of the laboratory and may present relatively unique problems, the validation of data is frequently subjective and demands analytical experience and professional judgment.

SURROGATE COMPOUND

List the percent recoveries (%Rs) which do not meet the criteria for surrogate recovery. Matrix: solid/aqueous

_Surrogate_standard	ds_not_requir	ed_by_the_met	thod		
			-		
QC Limits* (Air)	40		An	4 -	

- * QC limits are laboratory in-house performance criteria, LL = lower limit, UL = upper limit.
- * If QC limits are not available, use limits of 80 120 % for aqueous and 70 130 % for solid samples.

Actions:

SAMPLE ID

QUALITY	%R < 10%	%R = 10% - LL	%R > UL
Positive results	J	J	J
Nondetects results	R	UJ	Accept

Surrogate action should be applied:

If one or more surrogate in the VOC fraction is out of specification, but has a recovery of > 10%.

If any one surrogate in a fraction shows < 10 % recovery.

All criteria were met
Criteria were not met
and/or see belowN/A

VII. A MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD)

This data is generated to determine long term precision and accuracy in the analytical method for various matrices. This data alone cannot be used to evaluate the precision and accuracy of individual samples. If any % R in the MS or MSD falls outside the designated range, the reviewer should determine if there are matrix effects, i.e. LCS data are within the QC limits but MS/MSD data are outside QC limit.

1. MS/MSD Recoveries and Precision Criteria

The laboratory should use one MS and a duplicate analysis of an unspiked field sample if target analytes are expected in the sample. If target analytes are not expected, MS/MSD should be analyzed.

List the %Rs, RPD of the compounds which do not meet the criteria.

Sample ID:			Matrix/Level:			
MS OR MSD	COMPOUND	% R	RPD	QC LIMITS	ACTION	
	not_required_as_part		1-method	d_D-1946;_blank	_spike_used_to_asso	

Actions:

QUALITY	%R < LL	%R > UL
Positive results	J	J
Nondetects results	R	Accept

MS/MSD criteria apply only to the unspiked sample, its dilutions, and the associated MS/MSD samples:

If the % R for the affected compounds were < LL (or 70 %), qualify positive results (J) and nondetects (UJ).

If the % R for the affected compounds were > UL (or 130 %), only qualify positive results (J).

If 25 % or more of all MS/MSD %R were < LL (or 70 %) or if two or more MS/MSD %Rs were < 10%, qualify all positive results (J) and reject nondetects (R).

A separate worksheet should be used for each MS/MSD pair.

QC limits are laboratory in-house performance criteria, LL = lower limit, UL = upper limit.

^{*} If QC limits are not available, use limits of 70 – 130 %.

All criteria were met _____ Criteria were not met and/or see below __N/A___

VII. B MATRIX SPIKE/MATRIX SPIKE DUPLICATE

MS/MSD – Unspiked Compounds

It should be noted that Method TO-15 does not specify a MS/MSD criteria for the unspiked compounds in the sample. A %RSD of < 50% has therefore been utilized as professional judgment.

If all target analytes were spiked in the MS/MSD, this review element is not applicable.

List the %RSD of the compounds which do not meet the criteria.

Sample ID:			Matrix/Level/Unit:		
COMPOUND	SAMPLE CONC.	MS CONC.	MSD CONC.	% RSD	ACTION
				- 600	
	- 93	- 34 - 184	-40		
			-1		
		-			
	7				

Actions:

^{*} If the % RSD > 50, qualify the positive result in the unspiked samples as estimated (J).

^{*} If the % RSD is not calculated (NC) due to nondetected value, use professional judgment to qualify the data.

All criteria were met _	_X_	_
Criteria were not met		
and/or see below		

OC LIMIT

VIII. LABORATORY CONTROL SAMPLE (LCS) ANALYSIS

This data is generated to determine accuracy of the analytical method for various matrices.

1. LCS Recoveries Criteria

LCS ID

Where LCS spiked with the same analyte at the same concentrations as the MS/MSD? Yes or No. If no make note in data review memo.

% R

List the %R of compounds which do not meet the criteria

COMPOUND

	_00.0		70.11	QO Ellinii
LCS/LC	SD_(Blank_spik	e)_analyzed_in_this_data	_package;_recoveries_	and_RPD
within_la	aboratory_contro	ol_limits		
_				
- 20 - 10 - 10		3.		
		-1000		

- * QC limits are laboratory in-house performance criteria, LL = lower limit, UL = upper limit.
- * If QC limits are not available, use limits of 70 130 %.

Actions:

QUALITY	%R < LL	%R > UL
Positive results	J	J
Nondetects results	R	Accept

All analytes in the associated sample results are qualified for the following criteria.

If 25 % of the LCS recoveries were < LL (or 70 %), qualify all positive results (j) and reject nondetects (R).

If two or more LCS were below 10 %, qualify all positive results as (J) and reject nondetects (R).

2. Frequency Criteria:

Where LCS analyzed at the required frequency and for each matrix? <u>Yes</u> or No. If no, the data may be affected. Use professional judgment to determine the severity of the effect and qualify data accordingly. Discuss any actions below and list the samples affected.

		9	All criteria were metX Criteria were not met and/or see below
IX.	FIELD/LABORATORY DUPLICATE PRECISION		
	Sample ID_LCS/LCSD_(laboratory_duplicate)		Matrix:Air

Field/laboratory duplicates samples may be taken and analyzed as an indication of overall precision. These analyses measure both field and lab precision; therefore, the results may have more variability than laboratory duplicates which only laboratory performance. It is also expected that soil duplicate results will have a greater variance than water matrices due to difficulties associated with collecting identical field duplicate samples.

The project QAPP should be reviewed for project-specific information. Suggested criteria: RPD \pm 25% for air samples. If both samples and duplicate are <5 SQL, the RPD criteria is doubled.

COMPOUND	SQL	SAMPLE CONC.	DUPLICATE CONC.	RPD	ACTION
DDD foolet			04.000		4 IP 9
RPD for lab	oratory o	Suplicate (LC)	S/LCSD) within	laborati	ory control limits.
	-				<u> </u>

Actions:

Qualify as estimated positive results (J) and nondetects (UJ) for the compound that exceeded the above criteria. For organics, only the sample and duplicate will be qualified.

If an RPD cannot be calculated because one or both of the sample results is not detected, the following actions apply:

If one sample result is not detected and the other is greater than 5x the SQL qualify (J/UJ).

If one sample value is not detected and the other is greater than 5x the SQL and the SQLs for the sample and duplicate are significantly different, use professional judgment to determine if qualification is appropriate.

If one sample value is not detected and the other is less than 5x, use professional judgment to determine if qualification is appropriate.

If both sample and duplicate results are not detected, no action is needed.

All criteria were met _	_N/A	
Criteria were not met		
and/or see below		

X. INTERNAL STANDARD PERFORMANCE

The assessment of the internal standard (IS) parameter is used to assist the data reviewer in determining the condition of the analytical instrumentation.

List the internal standard area of samples which do not meet the criteria.

- * Area of +40% or -40% of the IS area in the associated calibration standard.
- Retention time (RT) within \pm 0.06 seconds of the IS area in the associated calibration standard.

DATE	SAMPLE ID	IS OUT	IS AREA	ACCEPTABLE RANGE	ACTION
	tandard_not_required			antified_by_externa	l_standard
Actions:					

1. IS actions should be applied to the compound quantitated with the out-of-control ISs

QUALITY	IS AREA < -40%	IS AREA > + 40%
Positive results	J	J
Nondetected results	R	ACCEPT

2. If a IS retention time varies more than 0.330 seconds, the chromatographic profile for that sample must be examined to determine if any false positive or negative exists. For shifts of a large magnitude, the reviewer may consider partial or total rejection of the data for the sample fraction.

All criteria were met _	х_
Criteria were not met	
and/or see below	

XII. SAMPLE QUANTITATION

The sample quantitation evaluation is to verify laboratory quantitation results. In the space below, please show a minimum of one sample calculation:

1605308F-09AA

Methane

RF = 226379851

[] = (2201136763)/(226379851)

= 9.723 % OK

All criteria were met	Х
Criteria were not met	
and/or see below	

XII.	$\triangle I I \Delta K$	ITITAT	I IAAT	LIMITS
AII.	WOM!	m	IUNI	כי ו וואוו־

A. Dilution performed

SAMPLE ID	DILUTION FACTOR	REASONS FOR DILUTION
All samples dilu	uted by a factor of less th	
	8	
	The same of the sa	
Carried States		
The state of the s		

Percent Solids
List samples which have ≤ 50 % solids

Actions:

If the % solids of a soil sample is 10-50%, estimate positive results (J) and nondetects (UJ)

If the % solids of a soil sample is < 10%, estimate positive results (J) and reject nondetects (R) $\,$